

## CLAIMS

### We Claim:

- 1           1.       A fiber optic module package, comprising:  
2                   a lid having a bottom surface; and  
3                   a module housing having a knife-shaped edge; wherein the lid and the  
4       module housing are sealed when the knife-shaped edge bites into the bottom surface of  
5       the lid to form a sealing mechanism.
  
- 1           2.       The fiber optic module package of Claim 1, further comprising a center die  
2       for pressing the lid onto the module housing such that the knife-shaped edge bites into the  
3       bottom surface of the module housing.
  
- 1           3.       The fiber optic module package of Claim 1, wherein the lid has a slot with  
2       an outer wall; and wherein the module housing has a side slot.
  
- 1           4.       The fiber optic module package of Claim 3, where the lid and the module  
2       housing are held together when the outer wall of the cylindrical-shaped slot of the lid  
3       enters into the side slot of the module housing to form a holding mechanism.
  
- 1           5.       The fiber optic module package of Claim 4, further comprising a  
2       surrounding forming die for pressing the outer wall of the cylindrical-shaped slot of the  
3       lid into the side slot of the module housing.

1           6.     The fiber optic module package of Claim 1, wherein the lid is made of a  
2     soft aluminum material and the module housing is made of a hard aluminum material.

1           7.     The fiber optic module package of Claim 6, wherein the soft aluminum  
2     material of the lid comprises Alloy 1100; and wherein and the hard aluminum material of  
3     the module housing comprises Alloy 6061.

1           8.     A fiber optic module package, comprising:  
2                 a lid having a curved surface around the outer edge of the lid; and  
3                 a module housing having an interior wall, wherein the lid and the module  
4     housing are held together when the interior wall is pressed into the curved surface of the  
5     lid to form a holding mechanism.

1           9.     The fiber optic module package of Claim 8, wherein lid has a bottom  
2     surface and the module housing has a knife-shaped edge; and wherein the lid and the  
3     module housing are sealed when the knife-shaped edge bites into the bottom surface of  
4     the lid to form a sealing mechanism.

1           10.    The fiber optic module package of Claim 9, further comprising a center die  
2     for pressing the lid onto the module housing such that the knife-shaped edge bites into the  
3     bottom surface of the module housing.

1           11.    The fiber optic module package of Claim 8, further comprising a  
2   surrounding forming die for pressing the interior wall of the module housing into the  
3   curved surface of the lid that serves as a holding mechanism for holding the lid and the  
4   module housing together.

1           12.    The fiber optical module package of Claim 8, wherein the lid is made of a  
2   soft aluminum material and the module housing is made of a hard aluminum material.

1           13.    The fiber optic module package of Claim 12, wherein the soft aluminum  
2   material of the lid comprises Alloy 1100; and wherein and the hard aluminum material of  
3   the module housing comprises Alloy 6061.

1           14.    A fiber optic module package, comprising:  
2                   a lid; and  
3                   a module housing;  
4                   wherein the lid and the module housing are sealed together using a metal-  
5   to-metal contact sealing means for hermetically sealed the lid and the module housing;  
6   and wherein the lid and the module housing are held together using a holding means  
7   between the lid and the module housing.

1           15.    The fiber optic module package of Claim 14, wherein the lid is made of a  
2   soft aluminum material and the module housing is made of a soft aluminum material.

1           16.    The fiber optic module package of Claim 15, wherein the lid is made of a  
2   hard aluminum material and the module housing is made of a hard aluminum material.

1           17.    The fiber optic module package of Claim 14, wherein the lid is made of a  
2   hard aluminum material and the module housing is made of a soft aluminum material.

1           18.    The fiber optic module package of Claim 14, wherein the lid is made from  
2   a first material and the module housing is made from a second material.

1           19.    The fiber optic module package of Claim 18, wherein the first material of  
2   the lid comprises aluminum alloy, stainless steel, copper, or titanium.

1           20.    The fiber optic module package of Claim 19, wherein the second material  
2   of the lid comprises aluminum alloy, stainless steel, copper, or titanium.

1           21.    The fiber optic module housing of Claim 14, wherein the lid is made from  
2   the same material as the module housing.

1           22.    A fiber optic module package, comprising:

2 a lid having a plurality of holes and having a bottom surface; and  
3 a module housing having a knife-shaped edge;  
4 wherein the lid and the module housing are sealed when the knife-shaped  
5 edge bites into the bottom surface of the lid to form a sealing mechanism; and wherein  
6 the plurality of screws are inserted through the plurality of holes of the lid and into the  
7 module housing to serve a holding mechanism for holding the lid and the module housing  
8 together.